

BARTA GY

ACTA TECHNICA  
ACADEMIAE SCIENTIARUM HUNGARICAE  
VOL. XLIII, NRS. 1-2, 1957

3

REPORT  
ON THE GEOMAGNETIC AND TELLURIC  
RESEARCHES CARRIED OUT IN HUNGARY  
DURING THE PERIOD OF 1954-57

G.Y. BARTA  
B. EMO. SC.

681  
fma  
009

BARTH, G.

On the secular variation of the level surface of gravity. In English. p. 15

ANNALES, SECTIO GEOLOGICA. Budapest, Hungary, Vol. 1, 1958

Monthly List of East European Accessions (EEA) LC, Vol. 9, N . 2, Feb. 1960  
Uncl.

BARTA, Gyorgy, dr.

Longitudinal and transversal effect of the secular variation  
of the geomagnetic field. Geofiz. karl 7 no.1:3-31 '58.

1. "Geofizikai Kozlemenyek" szerkeszto bizottsagi tagja.

BARTA, Gyorgy, dr.

On the secular variation of the earth's magnetic poles and core.  
Geofiz kozl 8 no.1/2:3-17 '59.

1. "Geofizikai Kozlemenek" szerkeszto bizottsagi tagja.

BARTA, Gyorgy, dr.

The Tibany Geophysical Observatory. Fiz szemle 9 no.1:32-33 Ja '59.

3.9100

b4b51

M/016/60/010/010/001/004  
R009/B057

AUTHOR:

Barta György

TITLE:

Research in Connection With Terrestrial Magnetism With  
Special Regard to the Geophysical Year

PERIODICAL: Fizikai Szemle, 1960, Vol. 10, No. 10, pp. 291-298

TEXT: This is the text of a lecture delivered at the extramural meeting of Hungarian physicists at Miskolc. 1) Historical retrospect: Ancient Chinese conceptions of magnetism, later research and preparatory work for research in the International Geophysical Year are discussed. 2) Results of the International Geophysical Year: The following among papers presented at the Moscow Congress in February, 1959 are pointed out: V. I. Afanas'yeva's proposals for the nomenclature of magnetic disturbances; V. A. Troitskaya's explanation of the regular degradation of pulsations by the approach of the corpuscular stream. A. G. Kalashnikov. P. K. Sen'ko, and S. M. Manshurov dealt with the local characteristics of disturbances; S. Sh. Dolzinov and N. V. Pushkov concluded from Sputnik measurements that the homogeneous terrestrial magnetic field and the

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84351

Research in Connection With Terrestrial Magnetism With Special Regard to the Geophysical Year

H/016/60/010/010.001-104  
PG03/B057

field of space anomalies decreased at the same rate with altitude. One of the most important results was the discovery of the Van Allen belts. The theory of Chapman and Ferraro is quoted for explanation. 3) Secular variation of the geomagnetic field: This problem has been mainly investigated in Hungary. The secular variation is usually represented on isograde maps. According to measurements of temperate zone observatories, the variation of the individual components has a periodicity of 50 years (Figs. 3-4). In space, the end point of the magnetic vector describes a helical curve. If the globe is viewed from outside, and the vectors of variation are orthogonally projected onto the equator and onto two planes perpendicular to the latter, the projected image shows that the center of symmetry is somewhere near Pakistan, around which, at a depth of 4,000 km, there is a circular current 3,000 km in diameter (Figs. 5-7). The magnetic center of the earth is orthogonally eccentric relative to a direction pointing from the geometrical center toward Pakistan and is moving in that direction. If the inner core of the earth is held responsible for terrestrial magnetism, this means that this core is shifting in that direction. 4) A recent survey of the geomagnetic field in 1960-1965. For

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Research in Connection With Terrestrial  
Magnetism With Special Regard to the Geo-  
physical Year

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rapid magnetometric surveys of extended areas, the Soviet Union has built the ship Zarya which is without iron parts. The IGY was not favorable to worldwide survey, because of a maximum of sunspots and frequent magnetic disturbances. The world survey has been programmed for the period between 1960 and 1965 for which a minimum of sunspots is expected. The magnetic spherical function computed from the world survey will locate the magnetic center of the Earth more precisely. There are 7 figures and 14 references: 2 Soviet, 3 German, 2 Hungarian, 5 US, and 2 British.

ASSOCIATION: Állami Eötvös Loránd Geofizikai Intézet  
(National Eötvös Loránd Geophysical Institute)

Card 3/3

EGYED, Laszlo, lev.tag.; SZADECZKY-KARDOSS, Elemer, akademikus; BARTA,  
Gyorgy, a muszaki tudomanyok doktora; RENNER, Janos, a muszaki  
tudomanyok doktora

Dynamics and development of the earth; also, remarks by E.Szadeczky-  
Kardoss and others. Muszaki kozl MTA 27 no.1/2:133-162 '60.  
(EEAI 10:4)

1. Magyar Tudomanyos Akademia, Muszaki Tudomanyok Osztalya.  
(Earth)

BARTA, Gy., D.eng.Sc.

Report on geomagnetic and earth current research in Hungary in the  
Period 1957 through 1959. Acta techn Hung 30 no.1/2:53-58 '60.  
(EEAI 10:1)

(Hungary--Magnetism, Terrestrial) (Earth)

BARTA, Gyorgy, dr.; FLORIAN, Endre

Interesting magnetic disturbance in the Tihany Observatory. Geofiz  
kozl 9 no.3/4:83-95 '61.

1. "Geofizikai Kozlemenek" szerkeszto bizottsagi tagja(for Barta).

(Hungary—Observatories)  
(Magnetism, Terrestrial—Observations)

BARTA, Gyorgy

"Dawn" by Mate Timar. Reviewed by Gyorgy Barta. Elet tud 16  
no.1:22 1 Ja '61.

41308

S/035/62/000/010/116/128  
A001/A101

AUTHOR: Barta, G.

TITLE: The connection between the eccentricity of the geomagnetic field  
and the triaxiality of the Earth

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodesiya, no. 10, 1962, 36 -  
39, abstract 10G197 ("Acta techn. Acad. scient. hung.", 1961,  
v. 37, no. 1 - 2, 211 - 227, English; German, French and Russian  
summaries)

TEXT: The author points out that the eccentricity of the geomagnetic  
field does not remain constant in time and is connected with the eccentricity  
of mass distribution within the terrestrial crust. Assuming eccentricity to  
take place, the author calculated distribution of gravity acceleration along  
the Earth's equator and difference between the major and minor axes of the  
equatorial ellipse. The calculations agree well with the results of determina-  
tion of the equatorial ellipse elements from geodetic and gravimetric data. In  
Figure 1, in polar coordinates are presented the difference between the major

Card 1/4 - Hungarian Geological and Mineralogical Institute

The connection between...

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and minor axes of the equatorial ellipse and longitude of meridian of the major axis, obtained from magnetic data (dotted line), geodetic (circles) and gravimetric data (squares). The variable in time eccentricity of mass distribution in the terrestrial crust gives rise to changes in eccentricity of the magnetic field, distribution of gravity acceleration values along the equator and world ocean level, as well as to the change in the period of Earth's rotation (see Figure 2). To study these phenomena, the author proposes to measure periodically gravity acceleration at a series of points along the equator.

A. Kondrashkov

[Abstracter's note: Complete translation]

Card 2/~~1~~.2

BARTA, Gyorgy, dr., a műszaki tudorányok doktora (Budapest)

The Paris Congress on Gravitation. Term. tud. kozl. 6 no.12:532 D '62.

BARTA, Gyorgy, dr.

The latest magnetic survey of the earth. Elet tud 17 no. 14:443-444.  
Ap '62

BARTA, Gyorgy, dr.

Relationship between the excentricity of the geomagnetic field and  
the ellipticity of the equator. Geofiz kozl 10 no.1/4:45-62 '62.

1. "Geofizikai Kozlemenek" szerkeszto bizottsagi tagja.

BARTA, Gyorgy, dr., a muszaki tudomanyok doktora

International cooperation for the study of the parth movements. Elet  
tud 18 no.10:306-308 10 Mr '63.

HARTA, Gyorgy, dr.

Development of the theory of the origin of the aurora borealis during  
the International Geophysical Year. Term tud kozl 5 no.7:327-328 Jl  
'61.

BARTA, Gyorgy, dr., a muszaki tudomanyok doktora

That which magnetism reveals about the structure of our earth.  
Elet tud 16 no.31:983-986 30 Jl '61.

BARTA, Gyorgy, okleveles gépészszmernök

A neglected field of industrial waste water economy: deciling of  
condensates. Ipari energia 3 no.10:213-217 O '62.

1. Vegyterv.

BARTA, Gyorgy, dr.

The strength of the magnetic field in the interstellar space  
has been measured. Term tud kozl 7 no.4:186 Ap '63.

HARTA, Gyorgy, dr., a műszaki tudományok doktora (Budapest)

Newer results in exploring Antarctica. Term tul kozl 7 no.7  
298 301 Jl '63.

BARTA, Gyorgy

Secular variation of geomagnetic field and other geophysical phenomena. Fiz szele 14 no. 2: 44-50 F '64.

1. Eotvos Lorand Geofizikai Intezet, Budapest.

BARTA, Gyorgy, dr.

Report on the congress on paleomagnetism in Moscow. Term  
tud kozl 8 no.5:237 My'64.

BARTA, Gyorgy, dr.

Energy transformations due to the secular variations of the earth. Geofiz kozl 13 no.3:359-366 '64.

1. Editorial Board Member, "Geofizikai Kozlemenyek."

L 671.92-67 EXP(1)/FCC GM/GD  
ACC NR: A16021013 (A, N)

SOURCE CODE: UR/0000/65/000/000/0042/0048

AUTHOR: Barta, G.

ORG: none

TITLE: Certain fundamental problems of the secular magnetic variations of the earth

SOURCE: AN SSSR. Institut fiziki Zemli. Nastoyashcheye i proshloye magnitnogo polya Zemli (The present and past of the earth's magnetic field). Moscow, Izd-vo Nauka, 1965, 42-48

TOPIC TAGS: secular variation, geomagnetic field, gravitation field

ABSTRACT: Examining certain problems of the secular magnetic variations of the earth, the author states that if the periodicity of the secular variation of the earth's magnetic field is equal to 50 years, then the same periodicity should be characteristic for the movement of the earth's inner core and that this should appear in other phenomena on the earth's surface. The 50-yr period of certain phenomena indicates an extensive shift of masses which should occur within the earth, for example, during the last 50 years a change of this period has been noted in the rotation rate of the earth, it being lower in 1910 and higher in 1935 than the average rate. The fact that the 50-yr period is also characteristic for a change of height of the poles further indicates the displacement of appreciable masses. If the shift of the magnetic center

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ACC NR: AT6021013

is associated with a shift of appreciable masses occurring within the earth, then these changes should also appear in the secular variations of the gravitational field. Even though there is no sufficiently long series of accurate data of gravimetric observations, the change of sea level which has been observed over a long period reflects to some extent the change of the level surfaces of gravity. Available data indicate a planetary character of the fluctuations of sea level with a periodicity of about 50 years. The author states that the hypothesis of the existence of eccentricity of the earth's core requires substantiation. The earth's core occurs at the place of greatest pressure, but in the case of a nonhomogeneous earth it does not coincide with the geometric center. If the substance of the earth in the oceanic hemisphere, i.e., in the Pacific Ocean, is denser than in the continental hemisphere, the point of maximal pressure shifts from the geometric center toward the Pacific Ocean and eccentricity occurs. As a result of shift of the earth's core the direction of the gravitational force changes. A calculation of the changes of direction occurring as a result of a displacement of the core revealed that in extreme cases the magnitude of these changes can reach 0.08". The most severe changes mainly occur at sea; on the continents these changes have a maximum of 0.02" per year. Approximately the same rates of change of the latitude and longitude values was recorded by accurate measurements of position carried out in the past decade. Thus these conclusions do not contradict one another. Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: 21Sep65/ OTH REF: 011

100%  
ACC NR: A 5023537

SOURCE CODE: HU/0017/65/017/006/0403/0405

AUTHOR: Barta, Gyorgy (Doctor)

ORG: none

TITLE: Physical background of the shape of the earth

SOURCE: Geodezia es kartografija, v. 17, no. 6, 1965, 403-406

TOPIC TAGS: artificial satellite, geodesy, spaceborne earth observation

ABSTRACT: A general discussion was presented on the physical factors contributing to the shape of the Earth as it is today. Precise data on the actual shape can be obtained with the aid of artificial satellites. It appears that the Earth is not an unchangeable, homogeneous body in hydrostatic equilibrium. The interactions of the various factors and forces contributing to shape of the Earth at any time is very complicated. Orig. art. has: 2 figures. [JRS]

SUB CODE: 08, 22 / SUBM DATE: none

Card 1/1

REC: 526.223  
09/15

1500

ALBERT, Anna; BARTA, Gyorgy, dr., a műszaki tudományok doktora;  
BERTHA, Istvan; KURALI, Ferencne; SVALCKY, Istvan

Secular variations of geomagnetic elements in Hungary.  
Geofiz kozl 11 no.1/4:4-27 '62.

1. Lorand Eotvos Hungarian State Institute of Geophysics.
2. Editorial board member, "Geofizikal Kozlemenyek"  
(for Barta).

ELEK, Jaros, oklevolas geossmernak, HUN. Mr. Balint, Jozsef, HUN., MERTA,  
Gyorgy; KOVACS, Lajos; KORMAYI, Gyorgyi, MR. GYURTA, Gyorgy, HUNGARY;  
Jene, FERGRACEZ Vladimir

Efficiency of gas consumption of various consumers with special  
regards to the optimum distribution of energy carriers. Published  
in: Atomizdat, Moscow, 1976.

1. National Petroleum and Gas Industry Trust, Budapest (for  
Hungary); 2. Ministry of Heavy Industry, Budapest (for  
Hungary).

BARTA, I.

Hematological nomenclature. Probl. gemat. i perel. krovi 5 no. 8:14-  
18 Ag '60. (MIRA 14:1)  
(HEMATOLOGY—NOMENCLATURE)

BARTA, Istvan, dr.

On university teaching in conjunction with a statement.  
Musz clct 17 no.19:5 13 S '62.

1. Muszaki Egyetem rektorhelyettese, Budapest.

BARTA, I. 1947

"On the Regenerative Activity of the Bone Marrow examined by Sternal Puncture."

Orvosok Lapja, Budapest, 1947, 3/47(1961-1964)  
Abst: Exc. Med. V. Vol. 11, No. 2, p. 117

PARTA, I. 1948

(1st Pediatric Dept., U. of Budapest)

"Absorption and Excretion of Potassium."

Paediatrica Danubiana, 1948, 4/4(190-195)  
Abst: Exc. Med. 11, Vol. 11, No. 7, p. 887

LAPTA I. A vörösvír-antitestek klinikai jelentése. Significance of the blood-group antibodies in eryosik Lapta, Budapest 1949, 5/22 (727-732)

SG: Medical Microbiology and Hygiene, Section IV, Vol 1, No. 1-6

PARTA, I. 1949

(Mohacsy Laszlo-Koskorrhazbol.)

"The Role of the Stomach in the Maturation of Reticulocytes."

Orvosi Hetilap 1949, 90/15(463-465)  
Abst: Exc. Med. 11, Vol. III, No. 5, p. 593

BARTA, I.; GYENKI, I.

Morphology and function of plasmacytes in tuberculosis. Orv.  
hetil., Budapest. 92 no. 41:1318-1322 14 Oct. 1951. (CIML 21:3)

1. Doctors. 2. Mohacs District General Hospital (Director -  
Head Physician --Prof.--Dr. Imre Barta).

BARTA, I.

Eosinophil count & structural modifications in the bone marrow  
in tuberculosis. Orv. hetil., Budap. 92 no. 45:1452-1454 11 Nov.  
1951.  
(CIML 21:3)

1. Doctor. 2. Mohacs District General Hospital (Director - Head  
Physician -- Prof.-Dr. Imre Barta).

BARTA, I.

Diagnosis of lymphotropic virus diseases. Klin. Wschr. 64  
no.49:516-20 28 Nov 52. (CIA 23:5)

I. of Munkacs General Hospital, Hungary.

BARTA, I.

Clinical significance of the plasma cell. Orv. hetil. 93 no.52:1488-  
1491 28 Dec 1952.  
(CIML 24:3)

1. Doctor. 2. Mohacs District Council Hospital (Director - Head Physician -- Dr. Imre Barta).

BARTA, I.

Morphology and clinical aspects of bone marrow reticulosis. Orv. hetil.  
94 no.30:823-827 28 July 1953. (CLML 25:1)

1. Doctor. 2. Mohacs District Hospital (Director - Head Physician --  
Dr. Imre Barta).

BARTA, I.

BOLONYI, F.; BARTA, I.

Contribution to the angio-architecture of the hypothalamus. Acta  
morph. hung. 4 no.3:293-299 1954.

1. Department of Histology and Embryology (director prof. I.Toro)  
and the Department of Cerebral and Nervous Diseases (director prof.  
Gy.Nyiro) of the Medical University, Budapest and the Department  
of Anatomy of the Medical University, Debrecen (director prof.  
I.Krompecher.

(HYPOTHALAMUS, blood supply  
angio-architecture)

BARTA, Imre, dr.

Further data on reticulososis. Orv. hetil. 95 no.52:1421-1423  
26 Dec 54.

1. A Mohacsi Jaras Korhazanak (igazgato-foorvos: Barta Imre, dr.)  
kozlemenye.

(LYMPHOMA  
reticulososis)

BARTA, Imre, Dr.; GYENEI, Ivan, Dr.; TORONDY, Jozsef, Dr.

Morphology and clinical manifestations of lymphocytosis. Magy. belorv.  
arch. 11 no.1:4-9 Feb 58.

1. A Mohacsi Varosi Korhaz (i;azgato foorvos: Barta, Imre dr.) kozlemenye.  
(LYMPHOCTYTOSIS  
morphol. & clinc. manifest. (Hun))

BARTA, Imre, Dr.; GYENNEI, Ivan, Dr.

Genesis of extramedullary blood formation. Magy. belorv. arch. 11 no.1:  
13-15 Feb 58.

1. A Mohacsi Varosi Korhaz (igazgatoforvos: Barta Imre dr.) kozlemenye.  
(HEMOPOIESIS  
extramedullary, genesis & mechanism (Hun))

BARTA, Imre

Hematology of tuberculosis. Tuberkulosis 12 no.7:145-149 July 59

1. A mohacsai Varosi Korhaz (ignazgato foorvos: Barta Imre dr.) kozlemenye,  
(TUBERCULOSIS, blood)

BARTA, Imre, dr.

Etiology of leukemia. Magy onkol 5 no.4:233-240 D '61.

1. Pecsi Orvostudomanyi Egyetem, I Belklinika.

(LEUKEMIA etiol)

BARTA, Imre, dr.; NAGY, Ibolya, dr.

The role of blood coagulation factors in thrombosis. Preliminary communication. Orv.hetil. 102 no.8:346-347 19 F'61.

1. Pecsi Orvostudomanyi Egyetem, I. Belklinika.  
(THROMBOSIS etiol)

BARTA, Imre, dr.

Disorders with congenital enzymopathies in hematology. Orv. hetil. 102  
no. 48:2259-2264 26 N '61.

1. Pecsi Orvostudomanyi Egyetem, I Belklinika.

(BLOOD DISEASES metab) (ENZYMES metab)

BARTA, Imre, dr.

The problem of the etiology and therapy of anemia. Orv. hetil. 103  
no.28:1297-1302 15 Jl '62.

1. Pecsi Orvostudomanyi Egyetem, I. Belklinika.  
(ANEMIA)

Final

ANNA, AURE, JR., Medical University of Giza, First Internal Medicine  
Clinic, Cairo, Egypt to Cairo, Egypt, 1, February, 1981.

Re: Dr. AURE, ANNA, JR., Medical University of Giza, Egypt

Medical University, Cairo, Egypt, 1, February, 1981.

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Approved for Release under E.O. 14176

BARTA, Imre, dr.

Diseases of the reticulum system and reticulososis. Orv. hetil. 103 no.45:  
2113-2119 11 N '62.

1. Pecsi Orvostudomanyi Egyetem, I. Belklinika.  
(RETICULOENDOTHELIAL SYSTEM) (RETICULOENDOTHELIOSIS)

HUNGARY

BARPA, Imre, Dr; Medical University of Pecs, I. Medical Clinic (Pecsi Orvos-tudomanyi Egyetem, I. Belklinika).

"The Clinical Picture of Fibrinolysis."

Budapest, Orvosi Hetilap, Vol 104, No 34, 25 Aug 1963, pages 1590-1593.

**Abstract:** [Author's Hungarian summary] A description of the enzymes and enzyme inhibitors of the fibrinolytic system is followed by the discussion of the diseases which involve an increased or decreased fibrinolytic activity. The indications for, and results of fibrinolytic therapy are also discussed by the author. 15 Western, 5 Hungarian references.

BARTA, Imre, az orvostudomanyok doktora, szisztemi tanar-

Present state a future development of immunotology. Magy  
tud 71 no.7:429-436 Jl '64.

1. Pecs Medical University.

"APPROVED FOR RELEASE: 06/06/2000

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2000

1. General Organization of Argentina. 2. Department (including  
Party, if any, Dr.).

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W. E.  
UARATA, I.

## Circuits & Circuit Elements

**Properties and Some Applications of Twin-T and Butterworth Circuits** By J. R. DUNN, JR., AND R. E. HARRIS, JR.

1948

BARTA, I.

USSR/ Electronics - Manufacture

Card 1/1 Pub. 89 - 10/30

Authors : Barta, Ishtvan, Prof., Budapest Polytechn. Inst.

Title : In Peoples Democracy Countries

Periodical : Radio 6, 15 - 16, Jun 1955

Abstract : Report is presented on the development of radio in Hungary during the post-war years. It is stated that in 1950 the Hungarian Government organized a new special plant "ORION" for the manufacture of electronic measuring instruments and that a special scientific research institute of radio instruments came into being the same year. The manufacture of various new types of radio receivers, beginning with the small superheterodyne type and ending with large 12-tube units, is anticipated by "ORION". Illustrations.

Institution : .....

Submitted : .....

BARTA, Istvan, dr.; SZOBOR, Albert, dr.

Data on the problems of primary cerebral carcinoma. Ideg.  
szemle 8 no.2:39-42 Apr 55.

1. A Budapesti Orvostudomanyi Egyetem Elme- és Idegkortani Klinikajának (Igazgató: Nyiro Gyula dr. egyetemi tanár)  
Közleménye.

(CEREBRAL VENTRICLES, neoplasms  
primary cancer of choroid plexus, pathohistol. &  
diag. (Hun))

1952, 1.

RAND, D. Requirements of Spectrometers for tellurium, sulfur, etc., measured by  
S. I. Spectrography. . . . .

U.S. Dept. of Com.

1952

TECHNICAL

Subject, Summary

See: Instruments & Apparatus, Vol. 3, No. 3, May 1952

BARTA, Istvan

Introduction of lectures by a group on radio and television techniques. Muszaki kozl MTA 26 no.1/4:85-88 '60. (EEAI 9:10)

1. A Magyar Tudomanyos Akademia levelezo tagja, Budapesti Muszaki Egyetem, Vezeteknelkuli Hiradastechnikai Tanszek.  
(Hungary--Radio) (Hungary--Television)

BARTA, Istvan, dr.; IZSAK, Miklos, dr.

Foundation of the Virág-Pollak Commemorative Medal. Magy hir  
techn 12 no.1:12 F '61.

1. Hiradastechnikai Tudomanyos Egyesulet elnöke (for Barta).
2. Hiradastechnikai Tudomanyos Egyesulet fotikara (for Izsak).

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CIA-RDP86-00513R000203720009-8

BARTA, Istvan

The young Kossuth. Elet tud 18 no.11:323-326 17 Mr '63.

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BARTAK, Imre, okleveles kohomernok; HARMATH, Janos, okleveles kohomernok

Horizontal aluminum casting at the Ajka light metal foundry.  
Koh lap 96 no.10:476-477 0 '63.

BARTA, Istvan, prof.; CSANADI, Gyorgy; FEHER, Istvan; KERTAI, Gyorgy  
Kossuth-dijas, cimzeses egyetemi tanar; RADOS, Kornel, prof.;  
VARGA, Jozsef, prof.

What technical and scientific achievements have impressed t  
you to the greatest extent? Musz elet 18 no.26:5 19 D '63.

1. Hiradustechnikai Tudomanyos Egyesulet elnöke (for Barta).
2. Kozlekedes- és postaügyi miniszter; Kozlekedestudomanyi  
Egyesulet elnöke (for Csanadi). 3. Boripari Kutatointezet  
igazgatoja; Boripari Tudomanyos Egyesulet elnöke (for Feher).
4. Magyarhonori Foldtani Tarsulat elnöke (for Kertai).
5. Epitoipari Tudomanyos Egyesulet elnöke; Muszaki és Termeszet-  
tudomanyi Egyesuletek Szovetsege Kozponti Oktataszi Bizottsaga-  
nak elnöke (for Rados). 6. Gépipari Tudomanyos Egyesulet elnöke  
(for Varga).

WINTER, Erno, akademikus; BARTA, Istvan, lev.tag.; VALKO, Ivan Peter, a  
muszaki tudomanyok kandidatusa

National economic importance of technical physical research in the  
past and its prospects in the field of the vaccum engineering  
industry. II. The electron tube; also, remarks by I.Berta and  
I.Valko. Muszaki kozl MTA 27 no.1/2:83-110 '60. (EEAI 10:4)

1. Magyar Tudomanyos Akademia, Muszaki Tudomanyok Osztalya.  
(Electron tubes)

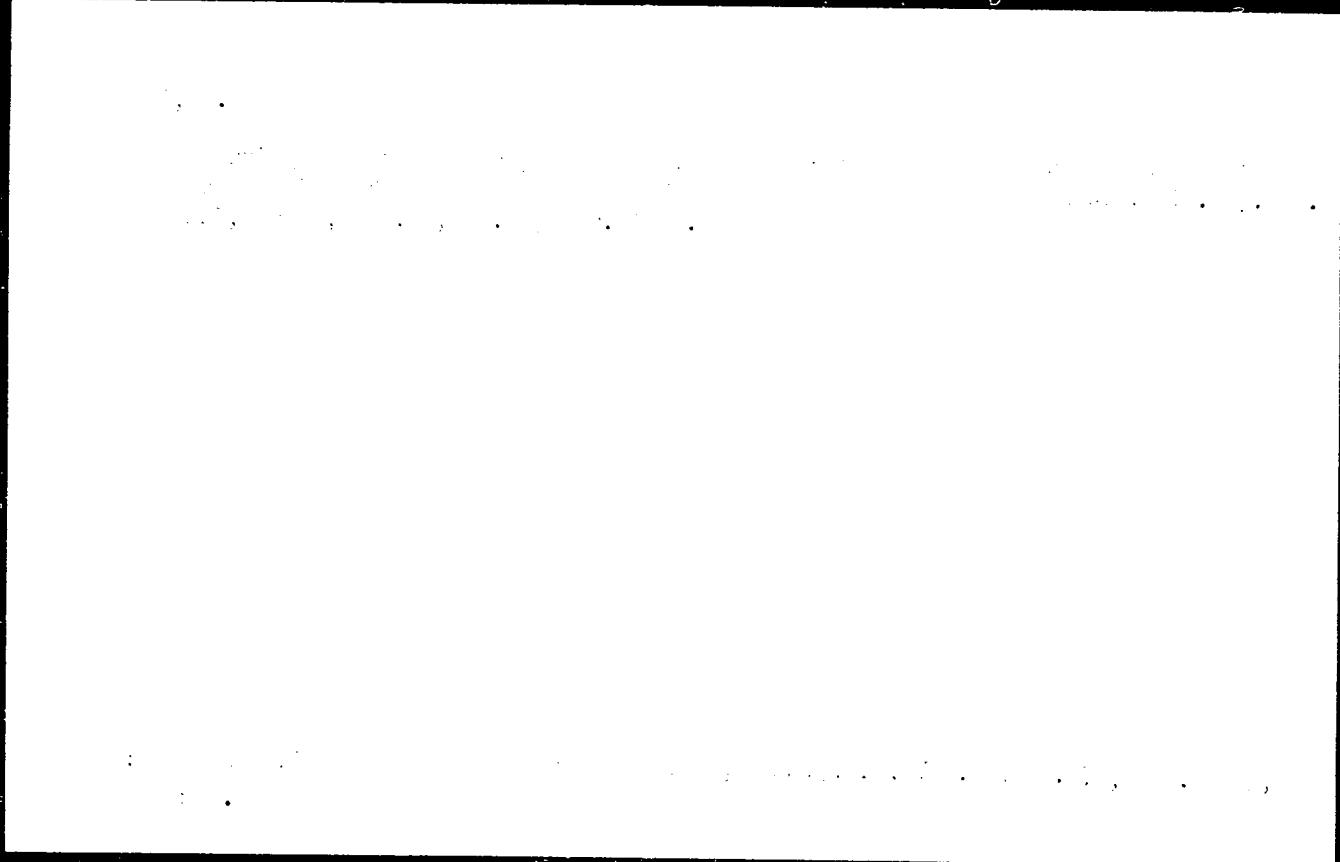
PARTA, J.

History of the health service in Slovak glassworks. p.124. (Sklar A Keramik. Praha. Vol. 7, no. 4, Apr. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 7, July 1957. Incl.

"APPROVED FOR RELEASE: 06/06/2000

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CIA-RDP86-00513R000203720009-8"

SKALIKOVA, Olga; TOLMAN, Vladimir; BARTA, Jiri; MECHEU A, Bohumil

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Archaeologist at Institute for the Slovak Archaeology and Epigraphy.  
Sedl place 6, 001-51 160.

1. Archaeologist at Institute of the Slovak Academy of Sciences,  
Bratislava.

*S. J. BARTA*

*Concreting Materials  
Concrete*

3164. Calculation of the vibration frequency of  
towers. J. BARTA. *Acta Tech. Hungarica*, 2, 491-7  
(No. 2-4, 1952).

621.315.66  
Funicular polygons are drawn, leading by successive  
approximations to a final polygon, from which the  
frequency can be calculated. The theoretical basis  
of the procedure is included.

E. O. TAYLOR

BIRLA

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624.071.5 639.305

On the Estimation of the Torsional Rigidity of Thin-Walled Multicellular Bars (in French) M1

J. Bartha Acta tech. hung.

12(3/4), 333-338

1955

Hungary

Upper and lower limits of torsional rigidity are given.  
Deductions are based on the theory of the torsion of  
hollow bars. A numerical example is given. (Bibl. 2)

DARMI, J.

Disproportional relations between capital rigidity and benefit rigidity. p. 445  
Vol. 19, No. 1/3, 1956. K ZLEMENI. Budapest, Hungary.

SOURCE: East European List, (EEL) Library of Congress Vol. 6, No. 1  
January 1957.

13 APRIL 1968

Barta, V. Inequality relation between torsional and flexural rigidity. Acta Tech Acad Sci Hungar 14 (1963) 477-479. (Romanian, French and German summaries)

Let  $R_{\max}$  and  $R_{\min}$  be the maximum and minimum values of the flexural rigidity of a beam of given cross section. It is known that these are related to the maximum and minimum moments of inertia of the cross section by  $R_{\max} = EI_{\max}$ ,  $R_{\min} = EI_{\min}$ , where  $E$  is Young's modulus. Consequently,  $R_{\max} + R_{\min} = E I_0$ , where  $I_0$  is the polar moment of inertia. The author observes that this fact, together with the inequality of Diaz and Weinberger (Amer J. Math. 70 (1948), 107-116; MR 9, 480) for the torsional rigidity  $R \leq EI_0/2(1+\nu)$ , yields

$$R \leq (R_{\max} + R_{\min})/(2(1+\nu)) < R_{\max}$$

when Poisson's ratio  $\nu$  is positive. H. F. Weinberger.

VW LFH

BARTA J.

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In this paper the author gives a generalization of the perturbation theory of linear differential equations in the complex plane. The author, A. Fuchs, shows that the theory can be extended to cover the case of a bar-shaped domain.

The author gives a detailed mathematical treatment, the purpose of which is to prove the limiting process. Both ends of the bar allow free boundary motion, and the movement of the bar and small eccentricity of the boundary forces are considered. The cross section of the bar is trapezoidal or circular. A numerical example shows the details of the method of solution, and use is made of the method of successive approximation. The limiting theorem is analogous to the limiting theorem of G. Temple and H. A. Schwarz.

From author's summary

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MT

11. 11. 1.

Circular plate uniformly painted orange-yellow. In center,

pt. 113 (Acute Thrombocytopenia) Budapest, Hungary Vol. V, no. 14, p. 57

SC: Monthly Index of East European Accidents (Aut.) Vol. 6, no. 11 November 197

BARTA, J.

1961. Barta, J.: Circular plate uniformly loaded on a diameter.  
Acta Econ. Hung. Budapest 16, 1/4, 409-406, 1936.

The usual theory of bending of a thin elastic plate is applied to the case mentioned in the title. The cases of the clamped circular plates and the case of a simply supported circular plate are discussed separately. The problem is solved by means of a binomial series. The numerical value of the bending moment is computed in several points.

From author's summary

JHM

to a practical formula for the strategic analysis of the Soviet Union. In "rech-

p. A. 7 (Note Technique) Budapest, Hungary Vol. 16, no. 3/4, 1967

SC: Monthly Index of East European Assessments (I. M.) Vol. 6, no. 11, November 1967

BARTA, J.

I-FW

Barta, J. Eine Modifikation des Vianelloschen Iterationsverfahrens. Acta Tech. Acad. Sci. Hungar. 17 (1957), 341-347. (English, French and Russian summaries)  
The paper describes an iteration method for determining the buckling load of a simply-supported column of variable cross-section subjected to axial compression. The general step consists of solving the initial value problem

$$EJY_{kn}'' + P_{kn}Y_{kn} = 0,$$

$$Y_{kn}(0) = 0, \quad Y_{kn}'(0) = 1,$$

rather than a related boundary value problem, as in Vianello's method. The next value of  $P_{kn}$  is found from the formula

$$P_{k(n+1)} = P_{kn} + 6EJ_{max}Y_{kn}(l)/l^3.$$

It is shown that  $\lim_{n \rightarrow \infty} P_{kn} = P_k$ , the critical load; moreover,  $P_{kn} \leq P_k$  for all  $n$ . W. E. Boyce.

BHATA J.

2  
1-FW

Bara, I. On the minimum weight of certain redundant structures. *Acta Acad. Sci. Hungar.* 18 (1957), 67-75. (English, French and Russian summaries).

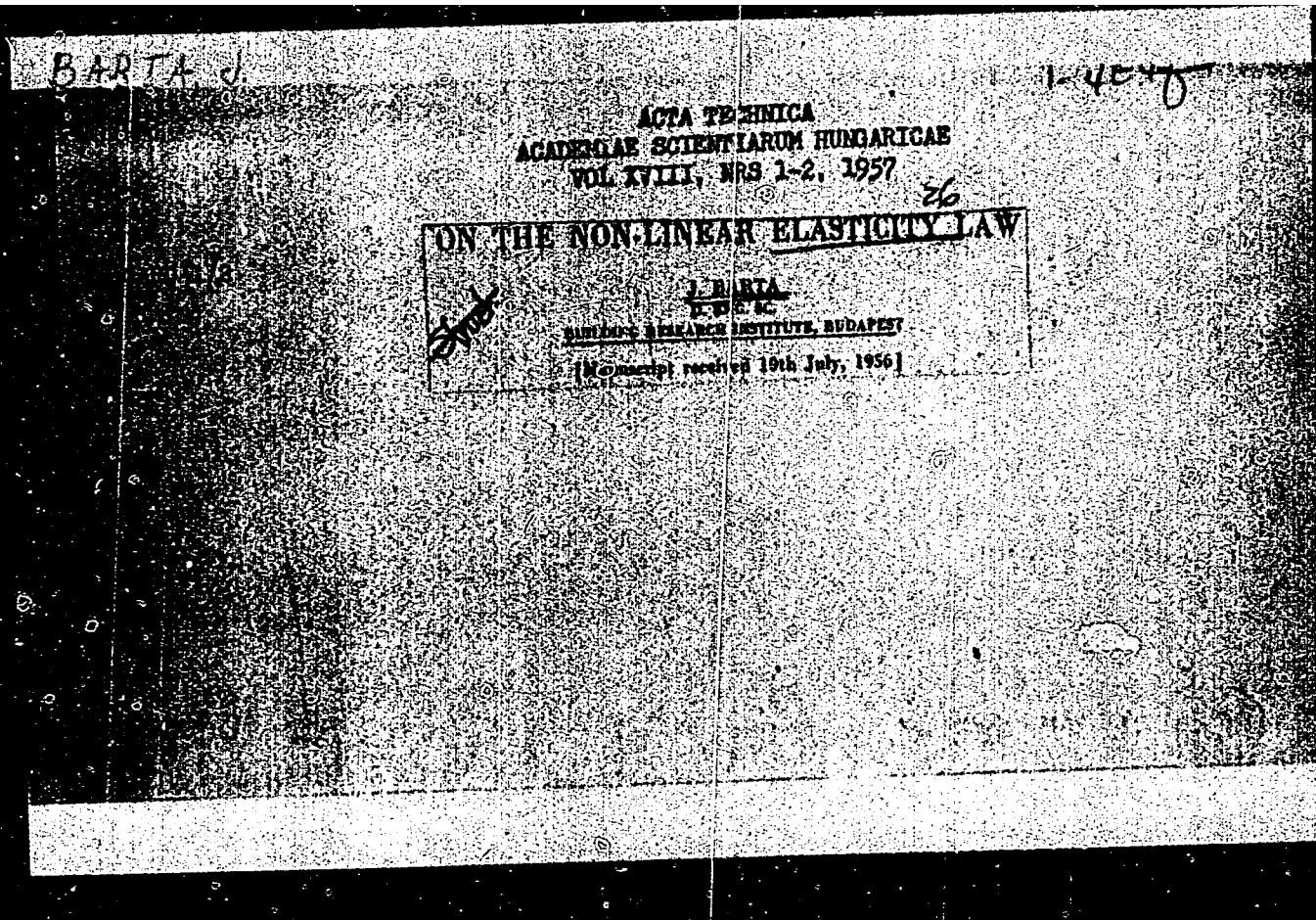
The author establishes that in statically indeterminate structures the minimum weight design occurs when sufficient constraints (i.e. redundancies) are removed so that structure becomes statically determinate. The resulting design may not be unique, but the weight is an absolute minimum. For example, in a redundant truss, sufficient bars are removed to make the truss statically determinate, but there may be several ways of doing this, leading to different designs all having the same (minimum) weight.

The principle has been known for some time, but does not appear to have been discussed in the literature. Sved gave a restricted proof for an idealized stress-strain curve [Astral. J. Appl. Sci. 5 (1954), 1-2], but the present proof is valid for any (reasonable) stress-strain law.

J. Heyman (Providence, R.I.)

Distr: 4V1

Andy



AM 2/2

IRMA J.

## The Non-Linear Elasticity Law

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## SUMMARY

The elasticity law of an elastic material, which does not obey the Hooke's law, will be written in the form  $\epsilon_1 = H(\sigma_1, \sigma_2, \sigma_3)$ ,  $\epsilon_2 = H(\sigma_1, \sigma_2, \sigma_3)$ ,  $\epsilon_3 = H(\sigma_1, \sigma_2, \sigma_3)$ , that is  $\sigma_1 = h(\epsilon_1, \epsilon_2, \epsilon_3)$ ,  $\sigma_2 = h(\epsilon_1, \epsilon_2, \epsilon_3)$ ,  $\sigma_3 = h(\epsilon_1, \epsilon_2, \epsilon_3)$ . Starting from plausible assumptions, the author deduces some properties of the functions  $H$  and  $h$ . Properties VI and XIII express the following: both the matrix

$$\begin{array}{lll} \frac{\partial \epsilon_1}{\partial \sigma_1}, & \frac{\partial \epsilon_1}{\partial \sigma_2}, & \frac{\partial \epsilon_1}{\partial \sigma_3}, \\ \frac{\partial \epsilon_2}{\partial \sigma_1}, & \frac{\partial \epsilon_2}{\partial \sigma_2}, & \frac{\partial \epsilon_2}{\partial \sigma_3}, \\ \frac{\partial \epsilon_3}{\partial \sigma_1}, & \frac{\partial \epsilon_3}{\partial \sigma_2}, & \frac{\partial \epsilon_3}{\partial \sigma_3} \end{array}$$

and the matrix

$$\begin{array}{lll} \frac{\partial \sigma_1}{\partial \epsilon_1}, & \frac{\partial \sigma_1}{\partial \epsilon_2}, & \frac{\partial \sigma_1}{\partial \epsilon_3}, \\ \frac{\partial \sigma_2}{\partial \epsilon_1}, & \frac{\partial \sigma_2}{\partial \epsilon_2}, & \frac{\partial \sigma_2}{\partial \epsilon_3}, \\ \frac{\partial \sigma_3}{\partial \epsilon_1}, & \frac{\partial \sigma_3}{\partial \epsilon_2}, & \frac{\partial \sigma_3}{\partial \epsilon_3} \end{array}$$

are symmetrical and positive definite.

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14E4P

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Set relation of the kern f a trapeze d.

J. Balki, *Ueber die Verhältnisse zwischen den Kernen von Trapezen*, 1951, in German  
Balki, J., *On the relation between the kernels of trapezes*, 1951, in German

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(Elasticity) (Load (Mechanics)) (Buckling (Mechanics))

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